

# ALMANAC LXI SIMULTANEOUS TRANSITS IN BCE

The almanac LXI contains a list of simultaneous transits from the 125th millennium BCE to the 1st millennium BCE.

During the period of 250 000 years, the total number of simultaneous transits is 452 simultaneous transits.

FROM/ OF	FIRST JD	FIRST DATE	TIME	C	LAST JD	LAST DATE	TIME	C
Saturn	-43889041.01	-124875-05-10	11:47 J		-43889040.76	-124875-05-10	17:47 J	
Venus	-43889041.06	-124875-05-10	10:35 J		-43889040.76	-124875-05-10	17:47 J	
Mercury	-43889041.01	-124875-05-10	11:47 J		-43889040.67	-124875-05-10	19:56 J	
Neptune	-43788725.73	-124600-01-01	18:30 J		-43788725.56	-124600-01-01	22:35 J	
Moon	-43788726.00	-124600-01-01	12:01 J		-43788725.56	-124600-01-01	22:35 J	
Mars	-43788725.73	-124600-01-01	18:30 J		-43788725.15	-124600-01-02	08:25 J	
Neptune	-43788725.73	-124600-01-01	18:30 J		-43788725.56	-124600-01-01	22:35 J	

Moon -43788726.00 -124600-01-01 12:01 J -43788725.56 -124600-01-01 22:35 J  
 Earth -43788725.91 -124600-01-01 14:11 J -43788725.46 -124600-01-02 00:59 J  
 Mars -43788725.73 -124600-01-01 18:30 J -43788725.15 -124600-01-02 08:25 J  
 Neptune -43788725.73 -124600-01-01 18:30 J -43788725.46 -124600-01-02 00:59 J  
 Earth -43788725.91 -124600-01-01 14:11 J -43788725.46 -124600-01-02 00:59 J  
 Mars -43788725.73 -124600-01-01 18:30 J -43788725.15 -124600-01-02 08:25 J  
 Saturn -43664362.68 -124260-06-28 19:42 J -43664362.63 -124260-06-28 20:54 J  
 Earth -43664362.87 -124260-06-28 15:08 J -43664362.63 -124260-06-28 20:54 J  
 Venus -43664362.68 -124260-06-28 19:42 J -43664362.30 -124260-06-29 04:49 J  
 Saturn -43453457.75 -123683-12-01 18:01 J -43453457.75 -123683-12-01 18:01 J  
 Mercury -43453458.01 -123683-12-01 11:46 J -43453457.75 -123683-12-01 18:01 J  
 Venus -43453457.75 -123683-12-01 18:01 J -43453457.39 -123683-12-02 02:39 J  
 Saturn -42915526.66 -122210-09-10 20:10 J -42915526.50 -122210-09-11 00:01 J  
 Venus -42915526.91 -122210-09-10 14:10 J -42915526.50 -122210-09-11 00:01 J  
 Mercury -42915526.66 -122210-09-10 20:10 J -42915526.44 -122210-09-11 01:27 J  
 Saturn -42549485.03 -121208-11-10 11:17 J -42549485.03 -121208-11-10 11:17 J  
 Mercury -42549485.27 -121208-11-10 05:32 J -42549485.03 -121208-11-10 11:17 J  
 Venus -42549485.03 -121208-11-10 11:17 J -42549484.61 -121208-11-10 21:22 J  
 Saturn -42388149.60 -120766-07-28 21:37 J -42388149.45 -120766-07-29 01:13 J  
 Venus -42388149.87 -120766-07-28 15:08 J -42388149.45 -120766-07-29 01:13 J  
 Mercury -42388149.60 -120766-07-28 21:37 J -42388149.38 -120766-07-29 02:53 J  
 Saturn -42372543.62 -120723-04-19 21:08 J -42372543.43 -120723-04-20 01:41 J  
 Mercury -42372543.75 -120723-04-19 18:01 J -42372543.43 -120723-04-20 01:41 J  
 Venus -42372543.62 -120723-04-19 21:08 J -42372543.20 -120723-04-20 07:13 J  
 Neptune -42288644.63 -120493-01-01 20:53 J -42288644.53 -120493-01-01 23:17 J  
 Moon -42288644.88 -120493-01-01 14:53 J -42288644.53 -120493-01-01 23:17 J  
 Venus -42288644.63 -120493-01-01 20:53 J -42288644.32 -120493-01-02 04:20 J  
 Neptune -42288644.63 -120493-01-01 20:53 J -42288644.53 -120493-01-01 23:17 J  
 Moon -42288644.88 -120493-01-01 14:53 J -42288644.53 -120493-01-01 23:17 J  
 Earth -42288644.83 -120493-01-01 16:05 J -42288644.45 -120493-01-02 01:13 J

Venus -42288644.63 -120493-01-01 20:53 J -42288644.32 -120493-01-02 04:20 J  
 Neptune -42288644.63 -120493-01-01 20:53 J -42288644.45 -120493-01-02 01:13 J  
 Earth -42288644.83 -120493-01-01 16:05 J -42288644.45 -120493-01-02 01:13 J  
 Venus -42288644.63 -120493-01-01 20:53 J -42288644.32 -120493-01-02 04:20 J  
 Saturn -42006501.39 -119721-06-20 02:39 J -42006501.29 -119721-06-20 05:03 J  
 Mercury -42006501.47 -119721-06-20 00:44 J -42006501.29 -119721-06-20 05:03 J  
 Venus -42006501.39 -119721-06-20 02:39 J -42006501.00 -119721-06-20 12:01 J  
 Saturn -41839663.57 -119264-03-30 22:20 J -41839663.39 -119264-03-31 02:39 J  
 Venus -41839663.60 -119264-03-30 21:37 J -41839663.23 -119264-03-31 06:29 J  
 Mercury -41839663.57 -119264-03-30 22:20 J -41839663.39 -119264-03-31 02:39 J  
 Saturn -41678327.83 -118823-12-16 16:05 J -41678327.73 -118823-12-16 18:29 J  
 Venus -41678328.07 -118823-12-16 10:20 J -41678327.73 -118823-12-16 18:29 J  
 Mercury -41678327.83 -118823-12-16 16:05 J -41678327.61 -118823-12-16 21:22 J  
 Neptune -41197399.18 -117506-09-02 07:41 J -41197399.15 -117506-09-02 08:24 J  
 Mercury -41197399.29 -117506-09-02 05:03 J -41197399.15 -117506-09-02 08:24 J  
 Mars -41197399.18 -117506-09-02 07:41 J -41197398.99 -117506-09-02 12:15 J  
 Neptune -41146495.56 -117366-01-13 22:34 J -41146495.49 -117366-01-14 00:15 J  
 Earth -41146496.01 -117366-01-13 11:46 J -41146495.49 -117366-01-14 00:15 J  
 Venus -41146495.56 -117366-01-13 22:34 J -41146495.11 -117366-01-14 09:22 J  
 Neptune -41146495.56 -117366-01-13 22:34 J -41146495.49 -117366-01-14 00:15 J  
 Earth -41146496.01 -117366-01-13 11:46 J -41146495.49 -117366-01-14 00:15 J  
 Moon -41146495.86 -117366-01-13 15:22 J -41146495.35 -117366-01-14 03:36 J  
 Venus -41146495.56 -117366-01-13 22:34 J -41146495.11 -117366-01-14 09:22 J  
 Neptune -41146495.56 -117366-01-13 22:34 J -41146495.35 -117366-01-14 03:36 J  
 Moon -41146495.86 -117366-01-13 15:22 J -41146495.35 -117366-01-14 03:36 J  
 Venus -41146495.56 -117366-01-13 22:34 J -41146495.11 -117366-01-14 09:22 J  
 Neptune -40713742.08 -116182-11-07 10:05 J -40713741.84 -116182-11-07 15:51 J  
 Mars -40713742.22 -116182-11-07 06:43 J -40713741.58 -116182-11-07 22:05 J  
 Mercury -40713742.08 -116182-11-07 10:05 J -40713741.84 -116182-11-07 15:51 J  
 Neptune -40444786.64 -115445-03-17 20:39 J -40444786.35 -115445-03-18 03:36 J

Mars -40444786.78 -115445-03-17 17:17 J -40444786.16 -115445-03-18 08:10 J  
 Mercury -40444786.64 -115445-03-17 20:39 J -40444786.35 -115445-03-18 03:36 J  
 Neptune -40022972.85 -114290-01-27 15:36 J -40022972.62 -114290-01-27 21:07 J  
 Mercury -40022972.97 -114290-01-27 12:43 J -40022972.62 -114290-01-27 21:07 J  
 Mars -40022972.85 -114290-01-27 15:36 J -40022972.34 -114290-01-28 03:50 J  
 Uranus -38909369.16 -111242-12-15 08:09 J -38909368.87 -111242-12-15 15:07 J  
 Mars -38909369.40 -111242-12-15 02:24 J -38909368.79 -111242-12-15 17:02 J  
 Mercury -38909369.16 -111242-12-15 08:09 J -38909368.87 -111242-12-15 15:07 J  
 Uranus -38005698.81 -108767-01-25 16:33 J -38005698.62 -108767-01-25 21:07 J  
 Mars -38005698.82 -108767-01-25 16:19 J -38005698.47 -108767-01-26 00:43 J  
 Mercury -38005698.81 -108767-01-25 16:33 J -38005698.62 -108767-01-25 21:07 J  
 Jupiter -33914251.37 -97566-11-04 03:06 J -33914251.28 -97566-11-04 05:15 J  
 Venus -33914251.47 -97566-11-04 00:42 J -33914251.28 -97566-11-04 05:15 J  
 Mercury -33914251.37 -97566-11-04 03:06 J -33914251.14 -97566-11-04 08:37 J  
 Neptune -33618324.25 -96755-01-17 05:59 J -33618323.95 -96755-01-17 13:11 J  
 Venus -33618324.31 -96755-01-17 04:32 J -33618323.92 -96755-01-17 13:54 J  
 Mercury -33618324.25 -96755-01-17 05:59 J -33618323.95 -96755-01-17 13:11 J  
 Mars -33427304.64 -96232-01-10 20:37 J -33427304.44 -96232-01-11 01:25 J  
 Mercury -33427304.72 -96232-01-10 18:42 J -33427304.44 -96232-01-11 01:25 J  
 Earth -33427304.64 -96232-01-10 20:37 J -33427304.27 -96232-01-11 05:30 J  
 Neptune -33408573.24 -96181-04-24 06:13 J -33408573.01 -96181-04-24 11:44 J  
 Mercury -33408573.30 -96181-04-24 04:47 J -33408573.01 -96181-04-24 11:44 J  
 Venus -33408573.24 -96181-04-24 06:13 J -33408573.01 -96181-04-24 11:44 J  
 Neptune -33076345.48 -95272-11-26 00:27 J -33076345.26 -95272-11-26 05:44 J  
 Venus -33076345.61 -95272-11-25 21:20 J -33076345.17 -95272-11-26 07:54 J  
 Mercury -33076345.48 -95272-11-26 00:27 J -33076345.26 -95272-11-26 05:44 J  
 Saturn -32871741.36 -94711-01-29 03:20 J -32871741.05 -94711-01-29 10:47 J  
 Venus -32871741.41 -94711-01-29 02:08 J -32871741.02 -94711-01-29 11:30 J  
 Earth -32871741.36 -94711-01-29 03:20 J -32871741.05 -94711-01-29 10:47 J  
 Saturn -32871741.29 -94711-01-29 05:01 J -32871741.02 -94711-01-29 11:30 J

Venus -32871741.41 -94711-01-29 02:08 J -32871741.02 -94711-01-29 11:30 J  
 Moon -32871741.29 -94711-01-29 05:01 J -32871741.00 -94711-01-29 11:59 J  
 Saturn -32871741.29 -94711-01-29 05:01 J -32871741.05 -94711-01-29 10:47 J  
 Venus -32871741.41 -94711-01-29 02:08 J -32871741.02 -94711-01-29 11:30 J  
 Earth -32871741.36 -94711-01-29 03:20 J -32871741.05 -94711-01-29 10:47 J  
 Moon -32871741.29 -94711-01-29 05:01 J -32871741.00 -94711-01-29 11:59 J  
 Neptune -32866594.41 -94697-03-03 02:08 J -32866594.15 -94697-03-03 08:23 J  
 Mercury -32866594.44 -94697-03-03 01:25 J -32866594.15 -94697-03-03 08:23 J  
 Venus -32866594.41 -94697-03-03 02:08 J -32866593.98 -94697-03-03 12:27 J  
 Neptune -32806599.60 -94533-06-04 21:35 J -32806599.50 -94533-06-04 23:59 J  
 Venus -32806599.93 -94533-06-04 13:39 J -32806599.50 -94533-06-04 23:59 J  
 Mercury -32806599.60 -94533-06-04 21:35 J -32806599.31 -94533-06-05 04:32 J  
 Jupiter -32508647.82 -93717-03-04 16:18 J -32508647.82 -93717-03-04 16:18 J  
 Mercury -32508648.08 -93717-03-04 10:03 J -32508647.82 -93717-03-04 16:18 J  
 Venus -32508647.82 -93717-03-04 16:18 J -32508647.59 -93717-03-04 21:49 J  
 Jupiter -32465278.54 -93599-11-29 23:01 J -32465278.27 -93599-11-30 05:30 J  
 Mercury -32465278.55 -93599-11-29 22:47 J -32465278.27 -93599-11-30 05:30 J  
 Venus -32465278.54 -93599-11-29 23:01 J -32465278.14 -93599-11-30 08:37 J  
 Jupiter -32421908.96 -93480-08-26 12:56 J -32421908.77 -93480-08-26 17:30 J  
 Venus -32421909.12 -93480-08-26 09:06 J -32421908.77 -93480-08-26 17:30 J  
 Mercury -32421908.96 -93480-08-26 12:56 J -32421908.72 -93480-08-26 18:42 J  
 Uranus -32374491.67 -93350-06-22 19:54 J -32374491.46 -93350-06-23 00:56 J  
 Venus -32374491.87 -93350-06-22 15:06 J -32374491.46 -93350-06-23 00:56 J  
 Mercury -32374491.67 -93350-06-22 19:54 J -32374491.42 -93350-06-23 01:54 J  
 Neptune -32144630.62 -92721-10-18 21:06 J -32144630.39 -92721-10-19 02:37 J  
 Venus -32144630.63 -92721-10-18 20:51 J -32144630.39 -92721-10-19 02:37 J  
 Mercury -32144630.62 -92721-10-18 21:06 J -32144630.35 -92721-10-19 03:35 J  
 Saturn -32075856.69 -92532-02-02 19:25 J -32075856.50 -92532-02-02 23:59 J  
 Venus -32075856.88 -92532-02-02 14:51 J -32075856.50 -92532-02-02 23:59 J  
 Moon -32075856.69 -92532-02-02 19:25 J -32075856.25 -92532-02-03 05:59 J

Saturn -32075856.63 -92532-02-02 20:51 J -32075856.50 -92532-02-02 23:59 J  
 Venus -32075856.88 -92532-02-02 14:51 J -32075856.50 -92532-02-02 23:59 J  
 Earth -32075856.63 -92532-02-02 20:51 J -32075856.19 -92532-02-03 07:25 J  
 Saturn -32075856.63 -92532-02-02 20:51 J -32075856.50 -92532-02-02 23:59 J  
 Venus -32075856.88 -92532-02-02 14:51 J -32075856.50 -92532-02-02 23:59 J  
 Moon -32075856.69 -92532-02-02 19:25 J -32075856.25 -92532-02-03 05:59 J  
 Earth -32075856.63 -92532-02-02 20:51 J -32075856.19 -92532-02-03 07:25 J  
 Uranus -32037218.44 -92427-11-17 01:25 J -32037218.25 -92427-11-17 05:59 J  
 Venus -32037218.61 -92427-11-16 21:20 J -32037218.25 -92427-11-17 05:59 J  
 Mercury -32037218.44 -92427-11-17 01:25 J -32037218.15 -92427-11-17 08:23 J  
 Uranus -31992388.22 -92304-08-13 06:42 J -31992388.13 -92304-08-13 08:51 J  
 Venus -31992388.42 -92304-08-13 01:54 J -31992388.13 -92304-08-13 08:51 J  
 Mercury -31992388.22 -92304-08-13 06:42 J -31992387.88 -92304-08-13 14:51 J  
 Jupiter -31561870.60 -91125-04-22 21:35 J -31561870.47 -91125-04-23 00:42 J  
 Venus -31561870.88 -91125-04-22 14:51 J -31561870.47 -91125-04-23 00:42 J  
 Mercury -31561870.60 -91125-04-22 21:35 J -31561870.31 -91125-04-23 04:32 J  
 Jupiter -31379861.32 -90627-08-16 04:18 J -31379861.15 -90627-08-16 08:23 J  
 Mercury -31379861.48 -90627-08-16 00:27 J -31379861.14 -90627-08-16 08:37 J  
 Venus -31379861.32 -90627-08-16 04:18 J -31379861.15 -90627-08-16 08:23 J  
 Saturn -31279972.54 -90353-02-07 23:01 J -31279972.34 -90353-02-08 03:49 J  
 Venus -31279972.75 -90353-02-07 17:59 J -31279972.34 -90353-02-08 03:49 J  
 Moon -31279972.54 -90353-02-07 23:01 J -31279972.07 -90353-02-08 10:18 J  
 Saturn -31279972.41 -90353-02-08 02:08 J -31279972.34 -90353-02-08 03:49 J  
 Venus -31279972.75 -90353-02-07 17:59 J -31279972.34 -90353-02-08 03:49 J  
 Earth -31279972.41 -90353-02-08 02:08 J -31279971.93 -90353-02-08 13:39 J  
 Saturn -31279972.41 -90353-02-08 02:08 J -31279972.34 -90353-02-08 03:49 J  
 Venus -31279972.75 -90353-02-07 17:59 J -31279972.34 -90353-02-08 03:49 J  
 Moon -31279972.54 -90353-02-07 23:01 J -31279972.07 -90353-02-08 10:18 J  
 Earth -31279972.41 -90353-02-08 02:08 J -31279971.93 -90353-02-08 13:39 J  
 Saturn -31177879.06 -90074-08-15 10:32 J -31177878.92 -90074-08-15 13:54 J

Moon -31177879.44 -90074-08-15 01:25 J -31177878.92 -90074-08-15 13:54 J  
 Mercury -31177879.06 -90074-08-15 10:32 J -31177878.79 -90074-08-15 17:01 J  
 Saturn -31177879.06 -90074-08-15 10:32 J -31177878.92 -90074-08-15 13:54 J  
 Moon -31177879.44 -90074-08-15 01:25 J -31177878.92 -90074-08-15 13:54 J  
 Earth -31177879.34 -90074-08-15 03:49 J -31177878.83 -90074-08-15 16:03 J  
 Mercury -31177879.06 -90074-08-15 10:32 J -31177878.79 -90074-08-15 17:01 J  
 Saturn -31177879.06 -90074-08-15 10:32 J -31177878.83 -90074-08-15 16:03 J  
 Earth -31177879.34 -90074-08-15 03:49 J -31177878.83 -90074-08-15 16:03 J  
 Mercury -31177879.06 -90074-08-15 10:32 J -31177878.79 -90074-08-15 17:01 J  
 Saturn -31054249.63 -89735-02-05 20:51 J -31054249.34 -89735-02-06 03:49 J  
 Mercury -31054249.63 -89735-02-05 20:51 J -31054249.34 -89735-02-06 03:49 J  
 Earth -31054249.63 -89735-02-05 20:51 J -31054249.15 -89735-02-06 08:23 J  
 Saturn -31054249.50 -89735-02-05 23:59 J -31054249.34 -89735-02-06 03:49 J  
 Mercury -31054249.63 -89735-02-05 20:51 J -31054249.34 -89735-02-06 03:49 J  
 Moon -31054249.50 -89735-02-05 23:59 J -31054249.04 -89735-02-06 11:01 J  
 Saturn -31054249.50 -89735-02-05 23:59 J -31054249.34 -89735-02-06 03:49 J  
 Mercury -31054249.63 -89735-02-05 20:51 J -31054249.34 -89735-02-06 03:49 J  
 Earth -31054249.63 -89735-02-05 20:51 J -31054249.15 -89735-02-06 08:23 J  
 Moon -31054249.50 -89735-02-05 23:59 J -31054249.04 -89735-02-06 11:01 J  
 Saturn -30473300.77 -88145-08-25 17:30 J -30473300.73 -88145-08-25 18:27 J  
 Venus -30473301.04 -88145-08-25 11:01 J -30473300.73 -88145-08-25 18:27 J  
 Mercury -30473300.77 -88145-08-25 17:30 J -30473300.49 -88145-08-26 00:13 J  
 Saturn -30457237.20 -88101-08-18 07:11 J -30457237.11 -88101-08-18 09:20 J  
 Earth -30457237.59 -88101-08-17 21:49 J -30457237.11 -88101-08-18 09:20 J  
 Mercury -30457237.20 -88101-08-18 07:11 J -30457236.86 -88101-08-18 15:20 J  
 Saturn -30457237.20 -88101-08-18 07:11 J -30457237.11 -88101-08-18 09:20 J  
 Earth -30457237.59 -88101-08-17 21:49 J -30457237.11 -88101-08-18 09:20 J  
 Moon -30457237.51 -88101-08-17 23:44 J -30457237.02 -88101-08-18 11:30 J  
 Mercury -30457237.20 -88101-08-18 07:11 J -30457236.86 -88101-08-18 15:20 J  
 Saturn -30457237.20 -88101-08-18 07:11 J -30457237.02 -88101-08-18 11:30 J

Moon -30457237.51 -88101-08-17 23:44 J -30457237.02 -88101-08-18 11:30 J  
 Mercury -30457237.20 -88101-08-18 07:11 J -30457236.86 -88101-08-18 15:20 J  
 Uranus -30213212.36 -87433-09-25 03:20 J -30213212.24 -87433-09-25 06:13 J  
 Venus -30213212.54 -87433-09-24 23:01 J -30213212.24 -87433-09-25 06:13 J  
 Mercury -30213212.36 -87433-09-25 03:20 J -30213212.02 -87433-09-25 11:30 J  
 Pluto -30206913.81 -87416-12-23 16:32 J -30206913.65 -87416-12-23 20:23 J  
 Mars -30206914.05 -87416-12-23 10:47 J -30206913.65 -87416-12-23 20:23 J  
 Moon -30206913.81 -87416-12-23 16:32 J -30206913.31 -87416-12-24 04:32 J  
 Pluto -30206913.68 -87416-12-23 19:39 J -30206913.65 -87416-12-23 20:23 J  
 Mars -30206914.05 -87416-12-23 10:47 J -30206913.65 -87416-12-23 20:23 J  
 Earth -30206913.68 -87416-12-23 19:39 J -30206913.19 -87416-12-24 07:25 J  
 Pluto -30206913.68 -87416-12-23 19:39 J -30206913.65 -87416-12-23 20:23 J  
 Mars -30206914.05 -87416-12-23 10:47 J -30206913.65 -87416-12-23 20:23 J  
 Moon -30206913.81 -87416-12-23 16:32 J -30206913.31 -87416-12-24 04:32 J  
 Earth -30206913.68 -87416-12-23 19:39 J -30206913.19 -87416-12-24 07:25 J  
 Uranus -30165584.89 -87302-02-17 14:37 J -30165584.76 -87302-02-17 17:44 J  
 Mercury -30165584.97 -87302-02-17 12:42 J -30165584.72 -87302-02-17 18:42 J  
 Earth -30165584.89 -87302-02-17 14:37 J -30165584.76 -87302-02-17 17:44 J  
 Saturn -30140074.88 -87233-12-21 14:51 J -30140074.86 -87233-12-21 15:20 J  
 Venus -30140075.27 -87233-12-21 05:30 J -30140074.86 -87233-12-21 15:20 J  
 Mercury -30140074.88 -87233-12-21 14:51 J -30140074.68 -87233-12-21 19:39 J  
 Saturn -30043228.26 -86967-02-15 05:44 J -30043228.07 -86967-02-15 10:18 J  
 Venus -30043228.47 -86967-02-15 00:42 J -30043228.07 -86967-02-15 10:18 J  
 Moon -30043228.26 -86967-02-15 05:44 J -30043227.84 -86967-02-15 15:49 J  
 Saturn -30043228.12 -86967-02-15 09:06 J -30043228.07 -86967-02-15 10:18 J  
 Venus -30043228.47 -86967-02-15 00:42 J -30043228.07 -86967-02-15 10:18 J  
 Earth -30043228.12 -86967-02-15 09:06 J -30043227.69 -86967-02-15 19:25 J  
 Saturn -30043228.12 -86967-02-15 09:06 J -30043228.07 -86967-02-15 10:18 J  
 Venus -30043228.47 -86967-02-15 00:42 J -30043228.07 -86967-02-15 10:18 J  
 Moon -30043228.26 -86967-02-15 05:44 J -30043227.84 -86967-02-15 15:49 J



Earth -30043228.12 -86967-02-15 09:06 J -30043227.69 -86967-02-15 19:25 J  
 Uranus -29951552.74 -86716-02-12 18:13 J -29951552.70 -86716-02-12 19:11 J  
 Venus -29951553.07 -86716-02-12 10:18 J -29951552.70 -86716-02-12 19:11 J  
 Earth -29951552.74 -86716-02-12 18:13 J -29951552.46 -86716-02-13 00:56 J  
 Uranus -29859877.44 -86465-02-11 01:25 J -29859877.24 -86465-02-11 06:13 J  
 Venus -29859877.66 -86465-02-10 20:08 J -29859877.24 -86465-02-11 06:13 J  
 Moon -29859877.44 -86465-02-11 01:25 J -29859877.15 -86465-02-11 08:23 J  
 Uranus -29859877.40 -86465-02-11 02:23 J -29859877.24 -86465-02-11 06:13 J  
 Venus -29859877.66 -86465-02-10 20:08 J -29859877.24 -86465-02-11 06:13 J  
 Earth -29859877.40 -86465-02-11 02:23 J -29859877.07 -86465-02-11 10:18 J  
 Uranus -29859877.40 -86465-02-11 02:23 J -29859877.24 -86465-02-11 06:13 J  
 Venus -29859877.66 -86465-02-10 20:08 J -29859877.24 -86465-02-11 06:13 J  
 Moon -29859877.44 -86465-02-11 01:25 J -29859877.15 -86465-02-11 08:23 J  
 Earth -29859877.40 -86465-02-11 02:23 J -29859877.07 -86465-02-11 10:18 J  
 Uranus -29768202.35 -86214-02-08 03:35 J -29768202.08 -86214-02-08 10:03 J  
 Moon -29768202.38 -86214-02-08 02:51 J -29768202.04 -86214-02-08 11:01 J  
 Venus -29768202.35 -86214-02-08 03:35 J -29768202.08 -86214-02-08 10:03 J  
 Uranus -29768202.35 -86214-02-08 03:35 J -29768202.08 -86214-02-08 10:03 J  
 Moon -29768202.38 -86214-02-08 02:51 J -29768202.04 -86214-02-08 11:01 J  
 Earth -29768202.37 -86214-02-08 03:06 J -29768202.01 -86214-02-08 11:44 J  
 Venus -29768202.35 -86214-02-08 03:35 J -29768202.08 -86214-02-08 10:03 J  
 Uranus -29768202.35 -86214-02-08 03:35 J -29768202.08 -86214-02-08 10:03 J  
 Earth -29768202.37 -86214-02-08 03:06 J -29768202.01 -86214-02-08 11:44 J  
 Venus -29768202.35 -86214-02-08 03:35 J -29768202.08 -86214-02-08 10:03 J  
 Saturn -29736595.42 -86128-08-22 01:54 J -29736595.20 -86128-08-22 07:11 J  
 Earth -29736595.57 -86128-08-21 22:18 J -29736595.20 -86128-08-22 07:11 J  
 Mercury -29736595.42 -86128-08-22 01:54 J -29736595.19 -86128-08-22 07:25 J  
 Saturn -29736595.42 -86128-08-22 01:54 J -29736595.20 -86128-08-22 07:11 J  
 Earth -29736595.57 -86128-08-21 22:18 J -29736595.20 -86128-08-22 07:11 J  
 Moon -29736595.43 -86128-08-22 01:39 J -29736595.04 -86128-08-22 11:01 J

Mercury -29736595.42 -86128-08-22 01:54 J -29736595.19 -86128-08-22 07:25 J

Saturn -29736595.42 -86128-08-22 01:54 J -29736595.19 -86128-08-22 07:25 J

Moon -29736595.43 -86128-08-22 01:39 J -29736595.04 -86128-08-22 11:01 J

Mercury -29736595.42 -86128-08-22 01:54 J -29736595.19 -86128-08-22 07:25 J

Uranus -29644367.89 -85875-02-22 14:37 J -29644367.88 -85875-02-22 14:51 J

Earth -29644368.35 -85875-02-22 03:35 J -29644367.88 -85875-02-22 14:51 J

Mercury -29644367.89 -85875-02-22 14:37 J -29644367.61 -85875-02-22 21:20 J

Uranus -29644367.89 -85875-02-22 14:37 J -29644367.88 -85875-02-22 14:51 J

Earth -29644368.35 -85875-02-22 03:35 J -29644367.88 -85875-02-22 14:51 J

Moon -29644368.25 -85875-02-22 05:59 J -29644367.80 -85875-02-22 16:47 J

Mercury -29644367.89 -85875-02-22 14:37 J -29644367.61 -85875-02-22 21:20 J

Uranus -29644367.89 -85875-02-22 14:37 J -29644367.80 -85875-02-22 16:47 J

Moon -29644368.25 -85875-02-22 05:59 J -29644367.80 -85875-02-22 16:47 J

Mercury -29644367.89 -85875-02-22 14:37 J -29644367.61 -85875-02-22 21:20 J

Uranus -29583494.23 -85709-10-22 06:28 J -29583494.11 -85709-10-22 09:20 J

Venus -29583494.42 -85709-10-22 01:54 J -29583494.11 -85709-10-22 09:20 J

Mercury -29583494.23 -85709-10-22 06:28 J -29583494.02 -85709-10-22 11:30 J

Uranus -29568573.05 -85668-08-29 10:47 J -29568572.94 -85668-08-29 13:25 J

Earth -29568573.45 -85668-08-29 01:11 J -29568572.94 -85668-08-29 13:25 J

Mercury -29568573.05 -85668-08-29 10:47 J -29568572.73 -85668-08-29 18:28 J

Uranus -29568573.05 -85668-08-29 10:47 J -29568572.94 -85668-08-29 13:25 J

Earth -29568573.45 -85668-08-29 01:11 J -29568572.94 -85668-08-29 13:25 J

Moon -29568573.42 -85668-08-29 01:54 J -29568572.88 -85668-08-29 14:52 J

Mercury -29568573.05 -85668-08-29 10:47 J -29568572.73 -85668-08-29 18:28 J

Uranus -29568573.05 -85668-08-29 10:47 J -29568572.88 -85668-08-29 14:52 J

Moon -29568573.42 -85668-08-29 01:54 J -29568572.88 -85668-08-29 14:52 J

Mercury -29568573.05 -85668-08-29 10:47 J -29568572.73 -85668-08-29 18:28 J

Saturn -29548305.24 -85612-02-24 06:13 J -29548305.05 -85612-02-24 10:47 J

Mercury -29548305.33 -85612-02-24 04:04 J -29548305.05 -85612-02-24 10:47 J

Earth -29548305.24 -85612-02-24 06:13 J -29548304.98 -85612-02-24 12:28 J

Saturn -29548305.16 -85612-02-24 08:08 J -29548305.05 -85612-02-24 10:47 J  
 Mercury -29548305.33 -85612-02-24 04:04 J -29548305.05 -85612-02-24 10:47 J  
 Moon -29548305.16 -85612-02-24 08:08 J -29548304.88 -85612-02-24 14:52 J  
 Saturn -29548305.16 -85612-02-24 08:08 J -29548305.05 -85612-02-24 10:47 J  
 Mercury -29548305.33 -85612-02-24 04:04 J -29548305.05 -85612-02-24 10:47 J  
 Earth -29548305.24 -85612-02-24 06:13 J -29548304.98 -85612-02-24 12:28 J  
 Moon -29548305.16 -85612-02-24 08:08 J -29548304.88 -85612-02-24 14:52 J  
 Uranus -29399286.51 -85204-02-20 23:44 J -29399286.41 -85204-02-21 02:08 J  
 Moon -29399286.89 -85204-02-20 14:37 J -29399286.41 -85204-02-21 02:08 J  
 Mercury -29399286.51 -85204-02-20 23:44 J -29399286.28 -85204-02-21 05:16 J  
 Uranus -29399286.51 -85204-02-20 23:44 J -29399286.41 -85204-02-21 02:08 J  
 Moon -29399286.89 -85204-02-20 14:37 J -29399286.41 -85204-02-21 02:08 J  
 Earth -29399286.78 -85204-02-20 17:16 J -29399286.29 -85204-02-21 05:01 J  
 Mercury -29399286.51 -85204-02-20 23:44 J -29399286.28 -85204-02-21 05:16 J  
 Uranus -29399286.51 -85204-02-20 23:44 J -29399286.29 -85204-02-21 05:01 J  
 Earth -29399286.78 -85204-02-20 17:16 J -29399286.29 -85204-02-21 05:01 J  
 Mercury -29399286.51 -85204-02-20 23:44 J -29399286.28 -85204-02-21 05:16 J  
 Uranus -29323492.54 -84997-08-26 23:01 J -29323492.43 -84997-08-27 01:40 J  
 Earth -29323492.96 -84997-08-26 12:56 J -29323492.43 -84997-08-27 01:40 J  
 Mercury -29323492.54 -84997-08-26 23:01 J -29323492.21 -84997-08-27 06:56 J  
 Uranus -29323492.54 -84997-08-26 23:01 J -29323492.43 -84997-08-27 01:40 J  
 Earth -29323492.96 -84997-08-26 12:56 J -29323492.43 -84997-08-27 01:40 J  
 Moon -29323492.80 -84997-08-26 16:47 J -29323492.28 -84997-08-27 05:16 J  
 Mercury -29323492.54 -84997-08-26 23:01 J -29323492.21 -84997-08-27 06:56 J  
 Uranus -29323492.54 -84997-08-26 23:01 J -29323492.28 -84997-08-27 05:16 J  
 Moon -29323492.80 -84997-08-26 16:47 J -29323492.28 -84997-08-27 05:16 J  
 Mercury -29323492.54 -84997-08-26 23:01 J -29323492.21 -84997-08-27 06:56 J  
 Uranus -28862531.49 -83735-09-12 00:13 J -28862531.48 -83735-09-12 00:28 J  
 Earth -28862531.78 -83735-09-11 17:16 J -28862531.48 -83735-09-12 00:28 J  
 Mercury -28862531.49 -83735-09-12 00:13 J -28862531.42 -83735-09-12 01:54 J

Saturn -28806484.70 -83581-02-22 19:11 J -28806484.64 -83581-02-22 20:37 J  
 Earth -28806484.82 -83581-02-22 16:18 J -28806484.64 -83581-02-22 20:37 J  
 Venus -28806484.70 -83581-02-22 19:11 J -28806484.29 -83581-02-23 05:01 J  
 Jupiter -26878479.61 -78303-09-25 21:20 J -26878479.55 -78303-09-25 22:47 J  
 Earth -26878479.91 -78303-09-25 14:08 J -26878479.55 -78303-09-25 22:47 J  
 Mercury -26878479.61 -78303-09-25 21:20 J -26878479.24 -78303-09-26 06:13 J  
 Jupiter -26878479.61 -78303-09-25 21:20 J -26878479.55 -78303-09-25 22:47 J  
 Earth -26878479.91 -78303-09-25 14:08 J -26878479.55 -78303-09-25 22:47 J  
 Moon -26878479.76 -78303-09-25 17:44 J -26878479.37 -78303-09-26 03:06 J  
 Mercury -26878479.61 -78303-09-25 21:20 J -26878479.24 -78303-09-26 06:13 J  
 Jupiter -26878479.61 -78303-09-25 21:20 J -26878479.37 -78303-09-26 03:06 J  
 Moon -26878479.76 -78303-09-25 17:44 J -26878479.37 -78303-09-26 03:06 J  
 Mercury -26878479.61 -78303-09-25 21:20 J -26878479.24 -78303-09-26 06:13 J  
 Saturn -26706565.81 -77832-05-29 16:32 J -26706565.59 -77832-05-29 21:49 J  
 Mars -26706565.95 -77832-05-29 13:11 J -26706565.59 -77832-05-29 21:49 J  
 Moon -26706565.81 -77832-05-29 16:32 J -26706565.38 -77832-05-30 02:52 J  
 Saturn -26706565.64 -77832-05-29 20:37 J -26706565.59 -77832-05-29 21:49 J  
 Mars -26706565.95 -77832-05-29 13:11 J -26706565.59 -77832-05-29 21:49 J  
 Earth -26706565.64 -77832-05-29 20:37 J -26706565.23 -77832-05-30 06:28 J  
 Saturn -26706565.64 -77832-05-29 20:37 J -26706565.59 -77832-05-29 21:49 J  
 Mars -26706565.95 -77832-05-29 13:11 J -26706565.59 -77832-05-29 21:49 J  
 Moon -26706565.81 -77832-05-29 16:32 J -26706565.38 -77832-05-30 02:52 J  
 Earth -26706565.64 -77832-05-29 20:37 J -26706565.23 -77832-05-30 06:28 J  
 Uranus -25948556.37 -75757-09-22 03:06 J -25948556.09 -75757-09-22 09:49 J  
 Mercury -25948556.46 -75757-09-22 00:56 J -25948556.09 -75757-09-22 09:49 J  
 Mars -25948556.37 -75757-09-22 03:06 J -25948555.72 -75757-09-22 18:42 J  
 Neptune -25347512.11 -74111-04-18 09:20 J -25347512.06 -74111-04-18 10:32 J  
 Moon -25347512.53 -74111-04-17 23:16 J -25347512.06 -74111-04-18 10:32 J  
 Mercury -25347512.11 -74111-04-18 09:20 J -25347511.91 -74111-04-18 14:08 J  
 Neptune -25347512.11 -74111-04-18 09:20 J -25347512.06 -74111-04-18 10:32 J

Moon -25347512.53 -74111-04-17 23:16 J -25347512.06 -74111-04-18 10:32 J  
 Earth -25347512.40 -74111-04-18 02:23 J -25347511.93 -74111-04-18 13:40 J  
 Mercury -25347512.11 -74111-04-18 09:20 J -25347511.91 -74111-04-18 14:08 J  
 Neptune -25347512.11 -74111-04-18 09:20 J -25347511.93 -74111-04-18 13:40 J  
 Earth -25347512.40 -74111-04-18 02:23 J -25347511.93 -74111-04-18 13:40 J  
 Mercury -25347512.11 -74111-04-18 09:20 J -25347511.91 -74111-04-18 14:08 J  
 Saturn -25340892.43 -74093-06-02 01:40 J -25340892.30 -74093-06-02 04:47 J  
 Moon -25340892.59 -74093-06-01 21:49 J -25340892.12 -74093-06-02 09:06 J  
 Mars -25340892.43 -74093-06-02 01:40 J -25340892.30 -74093-06-02 04:47 J  
 Saturn -25340892.43 -74093-06-02 01:40 J -25340892.30 -74093-06-02 04:47 J  
 Moon -25340892.59 -74093-06-01 21:49 J -25340892.12 -74093-06-02 09:06 J  
 Earth -25340892.47 -74093-06-02 00:42 J -25340892.01 -74093-06-02 11:44 J  
 Mars -25340892.43 -74093-06-02 01:40 J -25340892.30 -74093-06-02 04:47 J  
 Saturn -25340892.43 -74093-06-02 01:40 J -25340892.30 -74093-06-02 04:47 J  
 Earth -25340892.47 -74093-06-02 00:42 J -25340892.01 -74093-06-02 11:44 J  
 Mars -25340892.43 -74093-06-02 01:40 J -25340892.30 -74093-06-02 04:47 J  
 Jupiter -25297699.49 -73975-09-04 00:13 J -25297699.35 -73975-09-04 03:35 J  
 Earth -25297699.81 -73975-09-03 16:32 J -25297699.35 -73975-09-04 03:35 J  
 Venus -25297699.49 -73975-09-04 00:13 J -25297699.26 -73975-09-04 05:44 J  
 Jupiter -25297699.49 -73975-09-04 00:13 J -25297699.35 -73975-09-04 03:35 J  
 Earth -25297699.81 -73975-09-03 16:32 J -25297699.35 -73975-09-04 03:35 J  
 Moon -25297699.78 -73975-09-03 17:16 J -25297699.34 -73975-09-04 03:49 J  
 Venus -25297699.49 -73975-09-04 00:13 J -25297699.26 -73975-09-04 05:44 J  
 Jupiter -25297699.49 -73975-09-04 00:13 J -25297699.34 -73975-09-04 03:49 J  
 Moon -25297699.78 -73975-09-03 17:16 J -25297699.34 -73975-09-04 03:49 J  
 Venus -25297699.49 -73975-09-04 00:13 J -25297699.26 -73975-09-04 05:44 J  
 Saturn -25179445.90 -73651-06-08 14:23 J -25179445.56 -73651-06-08 22:32 J  
 Mars -25179446.07 -73651-06-08 10:18 J -25179445.56 -73651-06-08 22:32 J  
 Moon -25179445.90 -73651-06-08 14:23 J -25179445.41 -73651-06-09 02:08 J  
 Saturn -25179445.86 -73651-06-08 15:20 J -25179445.56 -73651-06-08 22:32 J

Mars -25179446.07 -73651-06-08 10:18 J -25179445.56 -73651-06-08 22:32 J  
 Earth -25179445.86 -73651-06-08 15:20 J -25179445.38 -73651-06-09 02:52 J  
 Saturn -25179445.86 -73651-06-08 15:20 J -25179445.56 -73651-06-08 22:32 J  
 Mars -25179446.07 -73651-06-08 10:18 J -25179445.56 -73651-06-08 22:32 J  
 Moon -25179445.90 -73651-06-08 14:23 J -25179445.41 -73651-06-09 02:08 J  
 Earth -25179445.86 -73651-06-08 15:20 J -25179445.38 -73651-06-09 02:52 J  
 Jupiter -24933916.99 -72979-08-28 12:13 J -24933916.66 -72979-08-28 20:09 J  
 Earth -24933917.01 -72979-08-28 11:45 J -24933916.63 -72979-08-28 20:52 J  
 Venus -24933916.99 -72979-08-28 12:13 J -24933916.66 -72979-08-28 20:09 J  
 Jupiter -24933916.88 -72979-08-28 14:52 J -24933916.66 -72979-08-28 20:09 J  
 Earth -24933917.01 -72979-08-28 11:45 J -24933916.63 -72979-08-28 20:52 J  
 Venus -24933916.99 -72979-08-28 12:13 J -24933916.66 -72979-08-28 20:09 J  
 Moon -24933916.88 -72979-08-28 14:52 J -24933916.50 -72979-08-28 23:59 J  
 Jupiter -24933916.88 -72979-08-28 14:52 J -24933916.66 -72979-08-28 20:09 J  
 Venus -24933916.99 -72979-08-28 12:13 J -24933916.66 -72979-08-28 20:09 J  
 Moon -24933916.88 -72979-08-28 14:52 J -24933916.50 -72979-08-28 23:59 J  
 Neptune -24927107.67 -72960-04-19 19:54 J -24927107.56 -72960-04-19 22:33 J  
 Mercury -24927107.82 -72960-04-19 16:18 J -24927107.56 -72960-04-19 22:33 J  
 Moon -24927107.67 -72960-04-19 19:54 J -24927107.16 -72960-04-20 08:09 J  
 Neptune -24927107.63 -72960-04-19 20:52 J -24927107.56 -72960-04-19 22:33 J  
 Mercury -24927107.82 -72960-04-19 16:18 J -24927107.56 -72960-04-19 22:33 J  
 Earth -24927107.63 -72960-04-19 20:52 J -24927107.13 -72960-04-20 08:52 J  
 Neptune -24927107.63 -72960-04-19 20:52 J -24927107.56 -72960-04-19 22:33 J  
 Mercury -24927107.82 -72960-04-19 16:18 J -24927107.56 -72960-04-19 22:33 J  
 Moon -24927107.67 -72960-04-19 19:54 J -24927107.16 -72960-04-20 08:09 J  
 Earth -24927107.63 -72960-04-19 20:52 J -24927107.13 -72960-04-20 08:52 J  
 Jupiter -24723703.66 -72403-03-10 20:09 J -24723703.35 -72403-03-11 03:35 J  
 Venus -24723703.74 -72403-03-10 18:13 J -24723703.35 -72403-03-11 03:35 J  
 Moon -24723703.66 -72403-03-10 20:09 J -24723703.18 -72403-03-11 07:40 J  
 Jupiter -24723703.53 -72403-03-10 23:16 J -24723703.35 -72403-03-11 03:35 J

Venus -24723703.74 -72403-03-10 18:13 J -24723703.35 -72403-03-11 03:35 J  
 Earth -24723703.53 -72403-03-10 23:16 J -24723703.07 -72403-03-11 10:18 J  
 Jupiter -24723703.53 -72403-03-10 23:16 J -24723703.35 -72403-03-11 03:35 J  
 Venus -24723703.74 -72403-03-10 18:13 J -24723703.35 -72403-03-11 03:35 J  
 Moon -24723703.66 -72403-03-10 20:09 J -24723703.18 -72403-03-11 07:40 J  
 Earth -24723703.53 -72403-03-10 23:16 J -24723703.07 -72403-03-11 10:18 J  
 Neptune -24296501.32 -71234-10-22 04:18 J -24296501.09 -71234-10-22 09:49 J  
 Earth -24296501.61 -71234-10-21 21:21 J -24296501.09 -71234-10-22 09:49 J  
 Mercury -24296501.32 -71234-10-22 04:18 J -24296500.93 -71234-10-22 13:40 J  
 Neptune -24296501.32 -71234-10-22 04:18 J -24296501.09 -71234-10-22 09:49 J  
 Earth -24296501.61 -71234-10-21 21:21 J -24296501.09 -71234-10-22 09:49 J  
 Moon -24296501.46 -71234-10-22 00:57 J -24296500.95 -71234-10-22 13:11 J  
 Mercury -24296501.32 -71234-10-22 04:18 J -24296500.93 -71234-10-22 13:40 J  
 Neptune -24296501.32 -71234-10-22 04:18 J -24296500.95 -71234-10-22 13:11 J  
 Moon -24296501.46 -71234-10-22 00:57 J -24296500.95 -71234-10-22 13:11 J  
 Mercury -24296501.32 -71234-10-22 04:18 J -24296500.93 -71234-10-22 13:40 J  
 Neptune -24206464.50 -70987-04-24 23:59 J -24206464.46 -70987-04-25 00:57 J  
 Mercury -24206464.71 -70987-04-24 18:57 J -24206464.46 -70987-04-25 00:57 J  
 Earth -24206464.50 -70987-04-24 23:59 J -24206464.00 -70987-04-25 11:59 J  
 Neptune -23786060.45 -69836-04-26 01:11 J -23786060.33 -69836-04-26 04:04 J  
 Moon -23786060.61 -69836-04-25 21:21 J -23786060.15 -69836-04-26 08:23 J  
 Mercury -23786060.45 -69836-04-26 01:11 J -23786060.33 -69836-04-26 04:04 J  
 Neptune -23786060.45 -69836-04-26 01:11 J -23786060.33 -69836-04-26 04:04 J  
 Moon -23786060.61 -69836-04-25 21:21 J -23786060.15 -69836-04-26 08:23 J  
 Earth -23786060.60 -69836-04-25 21:35 J -23786060.11 -69836-04-26 09:21 J  
 Mercury -23786060.45 -69836-04-26 01:11 J -23786060.33 -69836-04-26 04:04 J  
 Neptune -23786060.45 -69836-04-26 01:11 J -23786060.33 -69836-04-26 04:04 J  
 Earth -23786060.60 -69836-04-25 21:35 J -23786060.11 -69836-04-26 09:21 J  
 Mercury -23786060.45 -69836-04-26 01:11 J -23786060.33 -69836-04-26 04:04 J  
 Neptune -23183382.11 -68186-05-12 09:21 J -23183381.97 -68186-05-12 12:42 J

Moon -23183382.16 -68186-05-12 08:09 J -23183381.97 -68186-05-12 12:42 J  
 Mercury -23183382.11 -68186-05-12 09:21 J -23183381.85 -68186-05-12 15:35 J  
 Neptune -22232693.75 -65583-03-15 17:59 J -22232693.73 -65583-03-15 18:28 J  
 Moon -22232694.20 -65583-03-15 07:11 J -22232693.73 -65583-03-15 18:28 J  
 Venus -22232693.75 -65583-03-15 17:59 J -22232693.53 -65583-03-15 23:16 J  
 Neptune -22232693.75 -65583-03-15 17:59 J -22232693.73 -65583-03-15 18:28 J  
 Moon -22232694.20 -65583-03-15 07:11 J -22232693.73 -65583-03-15 18:28 J  
 Earth -22232694.12 -65583-03-15 09:06 J -22232693.63 -65583-03-15 20:52 J  
 Venus -22232693.75 -65583-03-15 17:59 J -22232693.53 -65583-03-15 23:16 J  
 Neptune -22232693.75 -65583-03-15 17:59 J -22232693.63 -65583-03-15 20:52 J  
 Earth -22232694.12 -65583-03-15 09:06 J -22232693.63 -65583-03-15 20:52 J  
 Venus -22232693.75 -65583-03-15 17:59 J -22232693.53 -65583-03-15 23:16 J  
 Neptune -20627309.73 -61188-07-03 18:28 J -20627309.50 -61188-07-03 23:59 J  
 Mars -20627310.07 -61188-07-03 10:18 J -20627309.50 -61188-07-03 23:59 J  
 Mercury -20627309.73 -61188-07-03 18:28 J -20627309.35 -61188-07-04 03:35 J  
 Saturn -19215581.69 -57323-08-09 19:25 J -19215581.55 -57323-08-09 22:47 J  
 Mars -19215582.00 -57323-08-09 11:59 J -19215581.55 -57323-08-09 22:47 J  
 Mercury -19215581.69 -57323-08-09 19:25 J -19215581.34 -57323-08-10 03:49 J  
 Mars -18718503.65 -55962-07-13 20:23 J -18718503.64 -55962-07-13 20:37 J  
 Moon -18718503.75 -55962-07-13 17:59 J -18718503.64 -55962-07-13 20:37 J  
 Mercury -18718503.65 -55962-07-13 20:23 J -18718503.44 -55962-07-14 01:25 J  
 Mars -18718503.65 -55962-07-13 20:23 J -18718503.64 -55962-07-13 20:37 J  
 Moon -18718503.75 -55962-07-13 17:59 J -18718503.64 -55962-07-13 20:37 J  
 Earth -18718503.74 -55962-07-13 18:13 J -18718503.54 -55962-07-13 23:01 J  
 Mercury -18718503.65 -55962-07-13 20:23 J -18718503.44 -55962-07-14 01:25 J  
 Mars -18718503.65 -55962-07-13 20:23 J -18718503.54 -55962-07-13 23:01 J  
 Earth -18718503.74 -55962-07-13 18:13 J -18718503.54 -55962-07-13 23:01 J  
 Mercury -18718503.65 -55962-07-13 20:23 J -18718503.44 -55962-07-14 01:25 J  
 Neptune -17950003.67 -53858-07-27 19:54 J -17950003.65 -53858-07-27 20:23 J  
 Mercury -17950003.88 -53858-07-27 14:52 J -17950003.65 -53858-07-27 20:23 J



Earth -17950003.67 -53858-07-27 19:54 J -17950003.25 -53858-07-28 05:59 J  
 Neptune -17529599.86 -52707-07-28 15:21 J -17529599.70 -52707-07-28 19:11 J  
 Moon -17529600.04 -52707-07-28 11:01 J -17529599.70 -52707-07-28 19:11 J  
 Mercury -17529599.86 -52707-07-28 15:21 J -17529599.57 -52707-07-28 22:18 J  
 Neptune -17529599.86 -52707-07-28 15:21 J -17529599.70 -52707-07-28 19:11 J  
 Moon -17529600.04 -52707-07-28 11:01 J -17529599.70 -52707-07-28 19:11 J  
 Earth -17529599.88 -52707-07-28 14:52 J -17529599.57 -52707-07-28 22:18 J  
 Mercury -17529599.86 -52707-07-28 15:21 J -17529599.57 -52707-07-28 22:18 J  
 Neptune -17529599.86 -52707-07-28 15:21 J -17529599.57 -52707-07-28 22:18 J  
 Earth -17529599.88 -52707-07-28 14:52 J -17529599.57 -52707-07-28 22:18 J  
 Mercury -17529599.86 -52707-07-28 15:21 J -17529599.57 -52707-07-28 22:18 J  
 Neptune -16356583.45 -49495-02-12 01:11 J -16356583.44 -49495-02-12 01:25 J  
 Earth -16356583.86 -49495-02-11 15:21 J -16356583.44 -49495-02-12 01:25 J  
 Mercury -16356583.45 -49495-02-12 01:11 J -16356583.20 -49495-02-12 07:11 J  
 Saturn -16304890.64 -49354-08-23 20:37 J -16304890.47 -49354-08-24 00:42 J  
 Mercury -16304890.65 -49354-08-23 20:23 J -16304890.47 -49354-08-24 00:42 J  
 Earth -16304890.64 -49354-08-23 20:37 J -16304890.25 -49354-08-24 05:59 J  
 Saturn -16304890.58 -49354-08-23 22:04 J -16304890.47 -49354-08-24 00:42 J  
 Mercury -16304890.65 -49354-08-23 20:23 J -16304890.47 -49354-08-24 00:42 J  
 Moon -16304890.58 -49354-08-23 22:04 J -16304890.20 -49354-08-24 07:11 J  
 Saturn -16304890.58 -49354-08-23 22:04 J -16304890.47 -49354-08-24 00:42 J  
 Mercury -16304890.65 -49354-08-23 20:23 J -16304890.47 -49354-08-24 00:42 J  
 Earth -16304890.64 -49354-08-23 20:37 J -16304890.25 -49354-08-24 05:59 J  
 Moon -16304890.58 -49354-08-23 22:04 J -16304890.20 -49354-08-24 07:11 J  
 Neptune -15936179.89 -48344-02-12 14:37 J -15936179.82 -48344-02-12 16:18 J  
 Mercury -15936180.16 -48344-02-12 08:09 J -15936179.82 -48344-02-12 16:18 J  
 Earth -15936179.89 -48344-02-12 14:37 J -15936179.41 -48344-02-13 02:09 J  
 Saturn -15562694.90 -47322-08-31 14:23 J -15562694.82 -47322-08-31 16:18 J  
 Moon -15562695.16 -47322-08-31 08:09 J -15562694.82 -47322-08-31 16:18 J  
 Mercury -15562694.90 -47322-08-31 14:23 J -15562694.64 -47322-08-31 20:38 J

Saturn -15562694.90 -47322-08-31 14:23 J -15562694.82 -47322-08-31 16:18 J  
 Moon -15562695.16 -47322-08-31 08:09 J -15562694.82 -47322-08-31 16:18 J  
 Earth -15562695.04 -47322-08-31 11:02 J -15562694.70 -47322-08-31 19:11 J  
 Mercury -15562694.90 -47322-08-31 14:23 J -15562694.64 -47322-08-31 20:38 J  
 Saturn -15562694.90 -47322-08-31 14:23 J -15562694.70 -47322-08-31 19:11 J  
 Earth -15562695.04 -47322-08-31 11:02 J -15562694.70 -47322-08-31 19:11 J  
 Mercury -15562694.90 -47322-08-31 14:23 J -15562694.64 -47322-08-31 20:38 J  
 Neptune -15365470.60 -46782-08-20 21:35 J -15365470.42 -46782-08-21 01:54 J  
 Earth -15365470.93 -46782-08-20 13:40 J -15365470.42 -46782-08-21 01:54 J  
 Mercury -15365470.60 -46782-08-20 21:35 J -15365470.36 -46782-08-21 03:21 J  
 Neptune -15365470.60 -46782-08-20 21:35 J -15365470.42 -46782-08-21 01:54 J  
 Earth -15365470.93 -46782-08-20 13:40 J -15365470.42 -46782-08-21 01:54 J  
 Moon -15365470.79 -46782-08-20 17:02 J -15365470.29 -46782-08-21 05:02 J  
 Mercury -15365470.60 -46782-08-20 21:35 J -15365470.36 -46782-08-21 03:21 J  
 Neptune -15365470.60 -46782-08-20 21:35 J -15365470.36 -46782-08-21 03:21 J  
 Moon -15365470.79 -46782-08-20 17:02 J -15365470.29 -46782-08-21 05:02 J  
 Mercury -15365470.60 -46782-08-20 21:35 J -15365470.36 -46782-08-21 03:21 J  
 Saturn -15191783.19 -46306-03-02 07:26 J -15191782.98 -46306-03-02 12:28 J  
 Mercury -15191783.31 -46306-03-02 04:33 J -15191782.98 -46306-03-02 12:28 J  
 Moon -15191783.19 -46306-03-02 07:26 J -15191782.83 -46306-03-02 16:04 J  
 Saturn -15191783.10 -46306-03-02 09:35 J -15191782.98 -46306-03-02 12:28 J  
 Mercury -15191783.31 -46306-03-02 04:33 J -15191782.98 -46306-03-02 12:28 J  
 Earth -15191783.10 -46306-03-02 09:35 J -15191782.78 -46306-03-02 17:16 J  
 Saturn -15191783.10 -46306-03-02 09:35 J -15191782.98 -46306-03-02 12:28 J  
 Mercury -15191783.31 -46306-03-02 04:33 J -15191782.98 -46306-03-02 12:28 J  
 Moon -15191783.19 -46306-03-02 07:26 J -15191782.83 -46306-03-02 16:04 J  
 Earth -15191783.10 -46306-03-02 09:35 J -15191782.78 -46306-03-02 17:16 J  
 Saturn -14820498.96 -45290-09-08 12:57 J -14820498.79 -45290-09-08 17:02 J  
 Mercury -14820499.08 -45290-09-08 10:04 J -14820498.79 -45290-09-08 17:02 J  
 Moon -14820498.96 -45290-09-08 12:57 J -14820498.62 -45290-09-08 21:06 J

Saturn -14820498.85 -45290-09-08 15:35 J -14820498.79 -45290-09-08 17:02 J  
 Mercury -14820499.08 -45290-09-08 10:04 J -14820498.79 -45290-09-08 17:02 J  
 Earth -14820498.85 -45290-09-08 15:35 J -14820498.52 -45290-09-08 23:30 J  
 Saturn -14820498.85 -45290-09-08 15:35 J -14820498.79 -45290-09-08 17:02 J  
 Mercury -14820499.08 -45290-09-08 10:04 J -14820498.79 -45290-09-08 17:02 J  
 Moon -14820498.96 -45290-09-08 12:57 J -14820498.62 -45290-09-08 21:06 J  
 Earth -14820498.85 -45290-09-08 15:35 J -14820498.52 -45290-09-08 23:30 J  
 Saturn -13868462.59 -42683-03-21 21:50 J -13868462.48 -42683-03-22 00:28 J  
 Mercury -13868462.80 -42683-03-21 16:47 J -13868462.48 -42683-03-22 00:28 J  
 Moon -13868462.59 -42683-03-21 21:50 J -13868462.08 -42683-03-22 10:04 J  
 Saturn -13868462.55 -42683-03-21 22:47 J -13868462.48 -42683-03-22 00:28 J  
 Mercury -13868462.80 -42683-03-21 16:47 J -13868462.48 -42683-03-22 00:28 J  
 Earth -13868462.55 -42683-03-21 22:47 J -13868462.07 -42683-03-22 10:18 J  
 Saturn -13868462.55 -42683-03-21 22:47 J -13868462.48 -42683-03-22 00:28 J  
 Mercury -13868462.80 -42683-03-21 16:47 J -13868462.48 -42683-03-22 00:28 J  
 Moon -13868462.59 -42683-03-21 21:50 J -13868462.08 -42683-03-22 10:04 J  
 Earth -13868462.55 -42683-03-21 22:47 J -13868462.07 -42683-03-22 10:18 J  
 Uranus -13691852.30 -42200-10-02 04:47 J -13691852.18 -42200-10-02 07:40 J  
 Mercury -13691852.41 -42200-10-02 02:09 J -13691852.18 -42200-10-02 07:40 J  
 Moon -13691852.30 -42200-10-02 04:47 J -13691851.91 -42200-10-02 14:09 J  
 Uranus -13691852.24 -42200-10-02 06:14 J -13691852.18 -42200-10-02 07:40 J  
 Mercury -13691852.41 -42200-10-02 02:09 J -13691852.18 -42200-10-02 07:40 J  
 Earth -13691852.24 -42200-10-02 06:14 J -13691851.82 -42200-10-02 16:18 J  
 Uranus -13691852.24 -42200-10-02 06:14 J -13691852.18 -42200-10-02 07:40 J  
 Mercury -13691852.41 -42200-10-02 02:09 J -13691852.18 -42200-10-02 07:40 J  
 Moon -13691852.30 -42200-10-02 04:47 J -13691851.91 -42200-10-02 14:09 J  
 Earth -13691852.24 -42200-10-02 06:14 J -13691851.82 -42200-10-02 16:18 J  
 Saturn -13454071.70 -41549-10-04 19:11 J -13454071.58 -41549-10-04 22:04 J  
 Moon -13454071.83 -41549-10-04 16:04 J -13454071.43 -41549-10-05 01:40 J  
 Mercury -13454071.70 -41549-10-04 19:11 J -13454071.58 -41549-10-04 22:04 J

Saturn -13454071.70 -41549-10-04 19:11 J -13454071.58 -41549-10-04 22:04 J  
 Moon -13454071.83 -41549-10-04 16:04 J -13454071.43 -41549-10-05 01:40 J  
 Earth -13454071.71 -41549-10-04 18:57 J -13454071.32 -41549-10-05 04:18 J  
 Mercury -13454071.70 -41549-10-04 19:11 J -13454071.58 -41549-10-04 22:04 J  
 Saturn -13454071.70 -41549-10-04 19:11 J -13454071.58 -41549-10-04 22:04 J  
 Earth -13454071.71 -41549-10-04 18:57 J -13454071.32 -41549-10-05 04:18 J  
 Mercury -13454071.70 -41549-10-04 19:11 J -13454071.58 -41549-10-04 22:04 J  
 Saturn -13314554.84 -41167-09-26 15:50 J -13314554.57 -41167-09-26 22:18 J  
 Earth -13314554.96 -41167-09-26 12:57 J -13314554.54 -41167-09-26 23:02 J  
 Mercury -13314554.84 -41167-09-26 15:50 J -13314554.57 -41167-09-26 22:18 J  
 Saturn -13314554.84 -41167-09-26 15:50 J -13314554.57 -41167-09-26 22:18 J  
 Earth -13314554.96 -41167-09-26 12:57 J -13314554.54 -41167-09-26 23:02 J  
 Moon -13314554.85 -41167-09-26 15:35 J -13314554.44 -41167-09-27 01:26 J  
 Mercury -13314554.84 -41167-09-26 15:50 J -13314554.57 -41167-09-26 22:18 J  
 Saturn -13314554.84 -41167-09-26 15:50 J -13314554.57 -41167-09-26 22:18 J  
 Moon -13314554.85 -41167-09-26 15:35 J -13314554.44 -41167-09-27 01:26 J  
 Mercury -13314554.84 -41167-09-26 15:50 J -13314554.57 -41167-09-26 22:18 J  
 Saturn -13147820.65 -40710-03-25 20:23 J -13147820.57 -40710-03-25 22:18 J  
 Mercury -13147820.81 -40710-03-25 16:33 J -13147820.57 -40710-03-25 22:18 J  
 Earth -13147820.65 -40710-03-25 20:23 J -13147820.26 -40710-03-26 05:45 J  
 Uranus -13124065.78 -40645-04-07 17:16 J -13124065.72 -40645-04-07 18:42 J  
 Moon -13124065.79 -40645-04-07 17:02 J -13124065.32 -40645-04-08 04:18 J  
 Mercury -13124065.78 -40645-04-07 17:16 J -13124065.72 -40645-04-07 18:42 J  
 Uranus -12404337.17 -38675-10-11 07:54 J -12404336.99 -38675-10-11 12:14 J  
 Earth -12404337.36 -38675-10-11 03:21 J -12404336.99 -38675-10-11 12:14 J  
 Mercury -12404337.17 -38675-10-11 07:54 J -12404336.90 -38675-10-11 14:23 J  
 Uranus -12404337.17 -38675-10-11 07:54 J -12404336.99 -38675-10-11 12:14 J  
 Earth -12404337.36 -38675-10-11 03:21 J -12404336.99 -38675-10-11 12:14 J  
 Moon -12404337.24 -38675-10-11 06:14 J -12404336.89 -38675-10-11 14:38 J  
 Mercury -12404337.17 -38675-10-11 07:54 J -12404336.90 -38675-10-11 14:23 J

Uranus -12404337.17 -38675-10-11 07:54 J -12404336.90 -38675-10-11 14:23 J  
 Moon -12404337.24 -38675-10-11 06:14 J -12404336.89 -38675-10-11 14:38 J  
 Mercury -12404337.17 -38675-10-11 07:54 J -12404336.90 -38675-10-11 14:23 J  
 Uranus -12357768.42 -38547-04-11 01:54 J -12357768.38 -38547-04-11 02:52 J  
 Earth -12357768.86 -38547-04-10 15:21 J -12357768.38 -38547-04-11 02:52 J  
 Mercury -12357768.42 -38547-04-11 01:54 J -12357768.11 -38547-04-11 09:21 J  
 Uranus -12357768.42 -38547-04-11 01:54 J -12357768.38 -38547-04-11 02:52 J  
 Earth -12357768.86 -38547-04-10 15:21 J -12357768.38 -38547-04-11 02:52 J  
 Moon -12357768.80 -38547-04-10 16:47 J -12357768.30 -38547-04-11 04:47 J  
 Mercury -12357768.42 -38547-04-11 01:54 J -12357768.11 -38547-04-11 09:21 J  
 Uranus -12357768.42 -38547-04-11 01:54 J -12357768.30 -38547-04-11 04:47 J  
 Moon -12357768.80 -38547-04-10 16:47 J -12357768.30 -38547-04-11 04:47 J  
 Mercury -12357768.42 -38547-04-11 01:54 J -12357768.11 -38547-04-11 09:21 J  
 Saturn -11582528.99 -36425-10-06 12:14 J -11582528.79 -36425-10-06 17:02 J  
 Mercury -11582529.10 -36425-10-06 09:35 J -11582528.79 -36425-10-06 17:02 J  
 Venus -11582528.99 -36425-10-06 12:14 J -11582528.55 -36425-10-06 22:47 J  
 Saturn -11442996.82 -36043-10-13 16:18 J -11442996.52 -36043-10-13 23:30 J  
 Venus -11442996.86 -36043-10-13 15:21 J -11442996.52 -36043-10-13 23:30 J  
 Earth -11442996.82 -36043-10-13 16:18 J -11442996.45 -36043-10-14 01:11 J  
 Saturn -11442996.68 -36043-10-13 19:40 J -11442996.52 -36043-10-13 23:30 J  
 Venus -11442996.86 -36043-10-13 15:21 J -11442996.52 -36043-10-13 23:30 J  
 Moon -11442996.68 -36043-10-13 19:40 J -11442996.30 -36043-10-14 04:47 J  
 Saturn -11442996.68 -36043-10-13 19:40 J -11442996.52 -36043-10-13 23:30 J  
 Venus -11442996.86 -36043-10-13 15:21 J -11442996.52 -36043-10-13 23:30 J  
 Earth -11442996.82 -36043-10-13 16:18 J -11442996.45 -36043-10-14 01:11 J  
 Moon -11442996.68 -36043-10-13 19:40 J -11442996.30 -36043-10-14 04:47 J  
 Saturn -11383333.79 -35879-02-17 17:02 J -11383333.55 -35879-02-17 22:47 J  
 Venus -11383333.92 -35879-02-17 13:54 J -11383333.55 -35879-02-17 22:47 J  
 Mercury -11383333.79 -35879-02-17 17:02 J -11383333.49 -35879-02-18 00:14 J  
 Uranus -11361198.49 -35819-09-26 00:14 J -11361198.41 -35819-09-26 02:09 J

Venus -11361198.81 -35819-09-25 16:33 J -11361198.41 -35819-09-26 02:09 J  
 Mercury -11361198.49 -35819-09-26 00:14 J -11361198.17 -35819-09-26 07:54 J  
 Uranus -11284016.79 -35607-01-17 17:02 J -11284016.59 -35607-01-17 21:50 J  
 Venus -11284016.96 -35607-01-17 12:57 J -11284016.59 -35607-01-17 21:50 J  
 Mercury -11284016.79 -35607-01-17 17:02 J -11284016.49 -35607-01-18 00:14 J  
 Saturn -11082304.18 -35055-04-22 07:40 J -11082304.14 -35055-04-22 08:38 J  
 Mercury -11082304.36 -35055-04-22 03:21 J -11082304.14 -35055-04-22 08:38 J  
 Moon -11082304.18 -35055-04-22 07:40 J -11082303.75 -35055-04-22 17:59 J  
 Saturn -11082304.14 -35055-04-22 08:38 J -11082304.14 -35055-04-22 08:38 J  
 Mercury -11082304.36 -35055-04-22 03:21 J -11082304.14 -35055-04-22 08:38 J  
 Earth -11082304.14 -35055-04-22 08:38 J -11082303.71 -35055-04-22 18:57 J  
 Saturn -11082304.14 -35055-04-22 08:38 J -11082304.14 -35055-04-22 08:38 J  
 Mercury -11082304.36 -35055-04-22 03:21 J -11082304.14 -35055-04-22 08:38 J  
 Moon -11082304.18 -35055-04-22 07:40 J -11082303.75 -35055-04-22 17:59 J  
 Earth -11082304.14 -35055-04-22 08:38 J -11082303.71 -35055-04-22 18:57 J  
 Saturn -10340108.74 -33023-04-29 18:14 J -10340108.69 -33023-04-29 19:26 J  
 Earth -10340109.02 -33023-04-29 11:31 J -10340108.66 -33023-04-29 20:09 J  
 Mercury -10340108.74 -33023-04-29 18:14 J -10340108.69 -33023-04-29 19:26 J  
 Neptune -9982602.62 -32044-02-14 21:07 J -9982602.56 -32044-02-14 22:33 J  
 Mars -9982603.15 -32044-02-14 08:23 J -9982602.56 -32044-02-14 22:33 J  
 Mercury -9982602.62 -32044-02-14 21:07 J -9982602.40 -32044-02-15 02:23 J  
 Neptune -9471184.21 -30644-04-24 06:57 J -9471183.96 -30644-04-24 12:57 J  
 Mars -9471184.51 -30644-04-23 23:45 J -9471183.87 -30644-04-24 15:07 J  
 Mercury -9471184.21 -30644-04-24 06:57 J -9471183.96 -30644-04-24 12:57 J  
 Jupiter -8652331.99 -28402-03-17 12:14 J -8652331.94 -28402-03-17 13:26 J  
 Venus -8652332.00 -28402-03-17 11:59 J -8652331.94 -28402-03-17 13:26 J  
 Mercury -8652331.99 -28402-03-17 12:14 J -8652331.79 -28402-03-17 17:02 J  
 Jupiter -8517957.90 -28034-02-07 14:23 J -8517957.59 -28034-02-07 21:50 J  
 Mars -8517957.96 -28034-02-07 12:57 J -8517957.46 -28034-02-08 00:57 J  
 Venus -8517957.90 -28034-02-07 14:23 J -8517957.59 -28034-02-07 21:50 J

Jupiter -7697024.88 -25787-09-11 14:52 J -7697024.72 -25787-09-11 18:43 J  
 Mercury -7697024.97 -25787-09-11 12:43 J -7697024.72 -25787-09-11 18:43 J  
 Venus -7697024.88 -25787-09-11 14:52 J -7697024.52 -25787-09-11 23:31 J  
 Jupiter -7653654.99 -25668-06-08 12:14 J -7653654.83 -25668-06-08 16:04 J  
 Venus -7653655.23 -25668-06-08 06:28 J -7653654.83 -25668-06-08 16:04 J  
 Mercury -7653654.99 -25668-06-08 12:14 J -7653654.63 -25668-06-08 20:52 J  
 Jupiter -7471645.53 -25170-10-01 23:16 J -7471645.39 -25170-10-02 02:38 J  
 Mercury -7471645.57 -25170-10-01 22:19 J -7471645.39 -25170-10-02 02:38 J  
 Venus -7471645.53 -25170-10-01 23:16 J -7471645.11 -25170-10-02 09:21 J  
 Jupiter -7330865.73 -24784-03-08 18:28 J -7330865.59 -24784-03-08 21:50 J  
 Venus -7330865.93 -24784-03-08 13:40 J -7330865.59 -24784-03-08 21:50 J  
 Mars -7330865.73 -24784-03-08 18:28 J -7330865.29 -24784-03-09 05:02 J  
 Neptune -7276494.02 -24635-01-17 11:31 J -7276493.81 -24635-01-17 16:33 J  
 Venus -7276494.09 -24635-01-17 09:50 J -7276493.74 -24635-01-17 18:14 J  
 Mercury -7276494.02 -24635-01-17 11:31 J -7276493.81 -24635-01-17 16:33 J  
 Neptune -6863298.83 -23504-04-24 16:04 J -6863298.63 -23504-04-24 20:52 J  
 Earth -6863299.01 -23504-04-24 11:45 J -6863298.63 -23504-04-24 20:52 J  
 Venus -6863298.83 -23504-04-24 16:04 J -6863298.41 -23504-04-25 02:09 J  
 Neptune -6863298.83 -23504-04-24 16:04 J -6863298.63 -23504-04-24 20:52 J  
 Earth -6863299.01 -23504-04-24 11:45 J -6863298.63 -23504-04-24 20:52 J  
 Moon -6863299.00 -23504-04-24 11:59 J -6863298.62 -23504-04-24 21:07 J  
 Venus -6863298.83 -23504-04-24 16:04 J -6863298.41 -23504-04-25 02:09 J  
 Neptune -6863298.83 -23504-04-24 16:04 J -6863298.62 -23504-04-24 21:07 J  
 Moon -6863299.00 -23504-04-24 11:59 J -6863298.62 -23504-04-24 21:07 J  
 Venus -6863298.83 -23504-04-24 16:04 J -6863298.41 -23504-04-25 02:09 J  
 Neptune -6615758.12 -22826-01-16 09:07 J -6615758.08 -22826-01-16 10:04 J  
 Mars -6615758.67 -22826-01-15 19:55 J -6615758.08 -22826-01-16 10:04 J  
 Mercury -6615758.12 -22826-01-16 09:07 J -6615757.86 -22826-01-16 15:21 J  
 Jupiter -6481779.40 -22460-11-09 02:23 J -6481779.26 -22460-11-09 05:45 J  
 Mars -6481779.53 -22460-11-08 23:16 J -6481778.98 -22460-11-09 12:28 J

Mercury	-6481779.40	-22460-11-09 02:23 J	-6481779.26	-22460-11-09 05:45 J
Neptune	-6472661.68	-22435-10-26 19:40 J	-6472661.56	-22435-10-26 22:33 J
Moon	-6472661.84	-22435-10-26 15:50 J	-6472661.56	-22435-10-26 22:33 J
Venus	-6472661.68	-22435-10-26 19:40 J	-6472661.24	-22435-10-27 06:14 J
Jupiter	-5138753.50	-18783-11-11 00:00 J	-5138753.29	-18783-11-11 05:02 J
Mars	-5138753.72	-18783-11-10 18:43 J	-5138753.26	-18783-11-11 05:45 J
Mercury	-5138753.50	-18783-11-11 00:00 J	-5138753.29	-18783-11-11 05:02 J
Jupiter	-4926484.08	-18201-01-09 10:04 J	-4926483.84	-18201-01-09 15:50 J
Mars	-4926484.16	-18201-01-09 08:09 J	-4926483.63	-18201-01-09 20:52 J
Mercury	-4926484.08	-18201-01-09 10:04 J	-4926483.84	-18201-01-09 15:50 J
Jupiter	-3795727.39	-15106-11-13 02:38 J	-3795727.34	-15106-11-13 03:50 J
Mars	-3795727.65	-15106-11-12 20:24 J	-3795727.34	-15106-11-13 03:50 J
Mercury	-3795727.39	-15106-11-13 02:38 J	-3795727.15	-15106-11-13 08:24 J
Jupiter	-3097006.96	-13193-11-09 12:57 J	-3097006.75	-13193-11-09 18:00 J
Moon	-3097007.16	-13193-11-09 08:09 J	-3097006.67	-13193-11-09 19:55 J
Venus	-3097006.96	-13193-11-09 12:57 J	-3097006.75	-13193-11-09 18:00 J
Jupiter	-3097006.96	-13193-11-09 12:57 J	-3097006.75	-13193-11-09 18:00 J
Moon	-3097007.16	-13193-11-09 08:09 J	-3097006.67	-13193-11-09 19:55 J
Earth	-3097007.15	-13193-11-09 08:24 J	-3097006.68	-13193-11-09 19:40 J
Venus	-3097006.96	-13193-11-09 12:57 J	-3097006.75	-13193-11-09 18:00 J
Jupiter	-3097006.96	-13193-11-09 12:57 J	-3097006.75	-13193-11-09 18:00 J
Earth	-3097007.15	-13193-11-09 08:24 J	-3097006.68	-13193-11-09 19:40 J
Venus	-3097006.96	-13193-11-09 12:57 J	-3097006.75	-13193-11-09 18:00 J
Uranus	159195.44	-4278-11-08 22:33 J	159195.55	-4278-11-09 01:11 J
Mars	159195.06	-4278-11-08 13:26 J	159195.55	-4278-11-09 01:11 J
Mercury	159195.44	-4278-11-08 22:33 J	159195.65	-4278-11-09 03:35 J
Uranus	986984.75	-2011-03-21 06:00 J	986984.85	-2011-03-21 08:23 J
Mars	986984.45	-2011-03-20 22:47 J	986984.85	-2011-03-21 08:23 J
Mercury	986984.75	-2011-03-21 06:00 J	986985.00	-2011-03-21 12:00 J
Uranus	1035986.80	-1877-05-18 07:12 J	1035986.89	-1877-05-18 09:21 J



Venus	1035986.46	-1877-05-17 23:02 J	1035986.89	-1877-05-18 09:21 J
Moon	1035986.80	-1877-05-18 07:12 J	1035987.08	-1877-05-18 13:55 J
Uranus	1035986.80	-1877-05-18 07:12 J	1035986.89	-1877-05-18 09:21 J
Venus	1035986.46	-1877-05-17 23:02 J	1035986.89	-1877-05-18 09:21 J
Earth	1035986.80	-1877-05-18 07:12 J	1035987.09	-1877-05-18 14:09 J
Uranus	1035986.80	-1877-05-18 07:12 J	1035986.89	-1877-05-18 09:21 J
Venus	1035986.46	-1877-05-17 23:02 J	1035986.89	-1877-05-18 09:21 J
Moon	1035986.80	-1877-05-18 07:12 J	1035987.08	-1877-05-18 13:55 J
Earth	1035986.80	-1877-05-18 07:12 J	1035987.09	-1877-05-18 14:09 J
Saturn	1057748.04	-1818-12-16 12:57 J	1057748.06	-1818-12-16 13:26 J
Venus	1057747.75	-1818-12-16 06:00 J	1057748.06	-1818-12-16 13:26 J
Mercury	1057748.04	-1818-12-16 12:57 J	1057748.26	-1818-12-16 18:14 J
Uranus	1127661.90	-1626-05-16 09:35 J	1127662.07	-1626-05-16 13:40 J
Venus	1127661.87	-1626-05-16 08:52 J	1127662.30	-1626-05-16 19:12 J
Moon	1127661.90	-1626-05-16 09:35 J	1127662.07	-1626-05-16 13:40 J
Uranus	1127661.97	-1626-05-16 11:16 J	1127662.17	-1626-05-16 16:04 J
Venus	1127661.87	-1626-05-16 08:52 J	1127662.30	-1626-05-16 19:12 J
Earth	1127661.97	-1626-05-16 11:16 J	1127662.17	-1626-05-16 16:04 J
Uranus	1127661.97	-1626-05-16 11:16 J	1127662.07	-1626-05-16 13:40 J
Venus	1127661.87	-1626-05-16 08:52 J	1127662.30	-1626-05-16 19:12 J
Moon	1127661.90	-1626-05-16 09:35 J	1127662.07	-1626-05-16 13:40 J
Earth	1127661.97	-1626-05-16 11:16 J	1127662.17	-1626-05-16 16:04 J